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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,329	06/25/2003	Kwang-Jin Park	F-7865	2839
28107	7590 05/17/2005	•	EXAM	INER
JORDAN AND HAMBURG LLP			HEPPERLE, STEPHEN M	
122 EAST 42ND STREET . SUITE 4000			ART UNIT	PAPER NUMBER
NEW YORK, NY 10168			3753	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)			
<b></b>	10/603,329	PARK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Stephen M. Hepperle	3753			
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic  - If the period for reply specified above is less than thirty (30) da  - If NO period for reply is specified above, the maximum statuto  - Failure to reply within the set or extended period for reply will,  Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	.TION. 7 CFR 1.136(a). In no event, however, may a repartion. ays, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MONTI by statute, cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed o	on .				
	☐ This action is non-final.				
3) Since this application is in condition for closed in accordance with the practice	allowance except for formal matte				
Disposition of Claims					
4) ☐ Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are versions 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-3 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction	withdrawn from consideration.				
Application Papers					
9)⊠ The specification is objected to by the E	xaminer.				
10)⊠ The drawing(s) filed on <u>25 June 2003</u> is	☑ The drawing(s) filed on <u>25 June 2003</u> is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection	n to the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	•	• •			
Priority under 35 U.S.C. § 119	•				
12) △ Acknowledgment is made of a claim for a) △ All b) □ Some * c) □ None of:  1. △ Certified copies of the priority documents.	cuments have been received. cuments have been received in Ap he priority documents have been r Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s)					
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Su	mmary (PTO-413)			
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-</li> </ol>	948) Paper No(s)	/Mail Date			
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date <u>25Sept03</u>.</li> </ol>	D/SB/08) 5)	ormal Patent Application (PTO-152) -			

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the open close unit made of rubber as recited in claim 3, lines 5-6 and the "rounds" recited in claim 2, line 40, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. The problem may simply be improper hatching of the part.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The disclosure is objected to because of the following informalities: the specification is replete with grammatical and idiomatic errors. For example, page 1, line 13, "begins to be flowed" should be "begins to flow". The phrase "In more", starting many sentences throughout the specification, is not understood. On page 5, line 17, "complicate" should be "complicated". The terms "hook hole" and especially "hook jaw" is not understood. The use of Greek letter phi as a unit of measurement is not understood. Finally, should "circumstance" be "circumference"?

Appropriate correction is required.

Claims 1-3 are objected to because of the following informalities: again, should "circumstance" be "circumference"? In line 4 of claim 1-2, should "faced" be "facing"?

Appropriate correction is required.

In general, the specification and claims need to be revised for numerous language errors.

Also, it is suggested that the terminology be revised.

Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Again, "circumstance" is not understood, and "hook jaw" is not understood. In claim 1, line 21, the expression, "a piston, penetrating the female screw" is not understood.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 as understood is rejected under 35 U.S.C. 102(b) as being anticipated by Chen. Chen shows a main body 60 with hot and cold inlets that angle toward each other ("bent and faced") and outlets, a "piston spacer" having a "separation hole" 63 in the middle, "first spacer" 65 just outside a "hook hole", and a "second spacer" 64 just outside another "hook hole", where the "hook holes" are smaller in diameter than the "piston spacer". "Cap hole" 68 is a bigger diameter bore, includes a "female screw" which accepts a male screw 60, which traps piston 70. It includes an inlet tube 931 and separation holes 95, and male threads 92. Piston 70 has a central "sealing" 83, with a sealing ring 71 and hot and cold water tubes on either side.

Claims 2-3 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Clare shows a similar valve with hot and cold water check valves 130, 132. Chang shows a similar valve, with a piston held in by a cap like applicant's valve. Hemson and Izuo et al. show damping or cushioning arrangements for valves. Cowan and Truax show check valves similar to applicant's.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Hepperle whose telephone number is 571-272-4913. The examiner can normally be reached on Monday through Friday.

Art Unit: 3753

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on 571-272-4930. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen M. Hepperle Primary Examiner Art Unit 3753

Steph Nepperle

**SMH**